

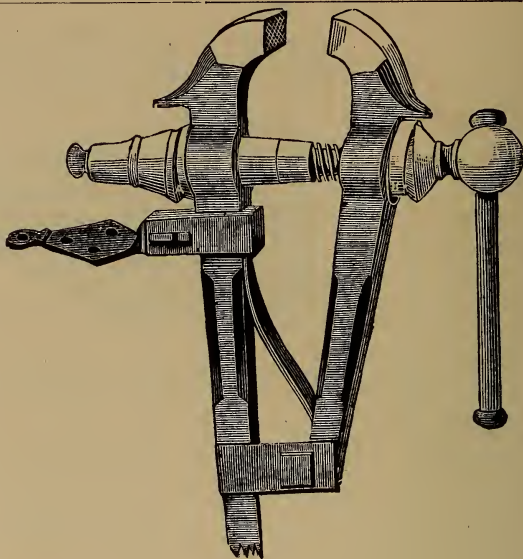
# VICES.

PATENT

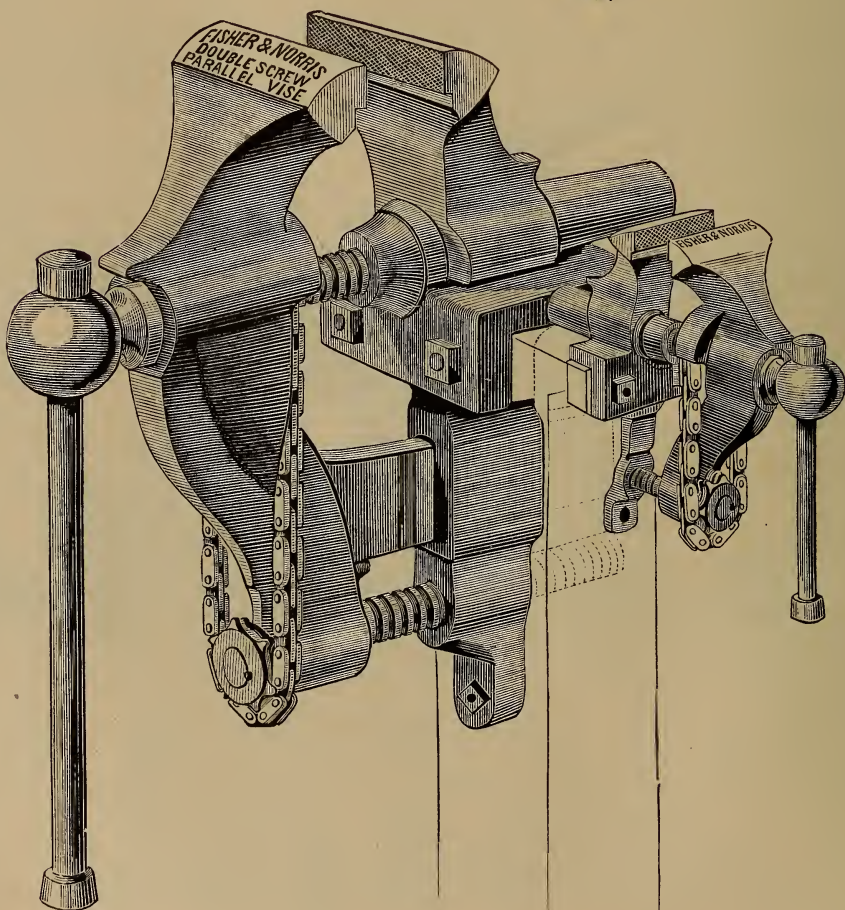
SOLID BOX VISE.

WARRANTED.

All Sizes—English and American.



THE DOUBLE SCREW PARALLEL VISE.



FOR DESCRIPTION AND PRICES, SEE FOLLOWING PAGE.

## The Double Screw Parallel Vise.

More than twenty-five years' use of this Vise by Machinists, Tool Makers, Locomotive Shops, &c., has established its superiority over every other.

It is the only one which has all the strength and "grip" of the ordinary English Vise; and at the same time with the jaws *parallel* at every point of opening.

In all other "Parallel" Vises having but one screw, *less than one-third* of the power applied is effective on the work itself; besides, in those vises the large waste of power on the slide from *friction* and the *tendency to "jam,"* of the lower end of the jaw, if screwed up very hard, renders them unfit for heavy work.

In this Vise the jaws are kept *always parallel* by the lower screw moving in or out exactly with the upper lever screw, by means of the chain connecting both; also, by their relative position, *two-thirds* of the power at the lever screw is received by any piece held between the jaws—thus enabling the heaviest work ever required of a vise to be done with this.

The Screws are forged of the best refined iron, and work in *solid cut thread* boxes. The jaws are faced with the *best* Tool Steel, welded on, file cut, and properly tempered for wear.

The Chain is very carefully made of case hardened links and rivets, and acting only to *regulate* the position of the lower screws from different points of opening—has *no direct strain* of the work upon it; it is therefore as durable as the other parts.

Only the strongest material is used in this manufacture, and from actual experiment on the six inch jaw vise, which has screws of  $1\frac{3}{8}$  inch diameter and lever 19 inches long, it has been found that applied at the lever screw it required to break either of the jaws, *eleven and one half tons*, thus exhibiting a maximum strength far above *any* other vise of like size.

The seven inch Vise has a lever two feet in length—screw  $1\frac{3}{8}$  inch diameter, and is without exception the most powerful vise ever used.

### PRICES.

No. 1, width of jaw 3 inches, and weighing about 12 lbs.,	.	.	\$ 7 00
" 2, " " 4 $\frac{1}{2}$ "	"	" 50 "	. . 15 00
" 3, " " 5 "	"	" 80 "	. . 20 00
" 4, " " 6 "	"	" 125 "	. . 26 00
" 5, " " 7 "	"	" 160 "	. . 30 00